RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _09/648,557_

Source: _1600_

Date Processed by STIC: _5/27/2003_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO **REDUCE** ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
    http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<**http://www.uspto.gov/ebc/efs/downloads/documents.htm>** , **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. **Hand Carry directly to:**
    U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
            Or
    U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. **Federal Express, United Parcel Service, or other delivery service to:** U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 04/24/2003

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: _09/648,557_

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1____Wrapped Nucleics
    Wrapped Aminos

The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2____Invalid Line Length

The rules require that a line not exceed 72 characters in length. This includes white spaces.

3____Misaligned Amino
    Numbering

The numbering under each 5ᵗʰ amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4____Non-ASCII

The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5____Variable Length

Sequence(s)____contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6____PatentIn 2.0
    "bug"

A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220><223> sections for Artificial or Unknown sequences.

7____Skipped Sequences
    (OLD RULES)

Sequence(s)____missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
    (i)   SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8____Skipped Sequences
    (NEW RULES)

Sequence(s)_____missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000

9____Use of n's or Xaa's
    (NEW RULES)

Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.

10____Invalid <213>
    Response

Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence

11____Use of <220>

Sequence(s) _161-20_ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32)   (Sec. 1.823 of Sequence Rules)

12____PatentIn 2.0
    "bug"

Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13____Misuse of n

n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

AMC/MH – Biotechnology Systems Branch – 08/21/2001

1600

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/648,557

DATE: 05/27/2003
TIME: 09:00:25

Input Set : A:\017753-152.ST25.txt
Output Set: N:\CRF4\05272003\I648557.raw

```
 4 <110> APPLICANT: Devaux, Christian
 5         Hebmann, Veronique
 6         Divita, Gilles
 7         Heitz, Frederic
 8         Morris, Catherine May
 9         Mery, Jean
10         Goody, Roger S.
12 <120> TITLE OF INVENTION: Inhibitors of HIV Replication and Method of Treatment
13         of HIV Infections
15 <130> FILE REFERENCE: 017753-152
17 <140> CURRENT APPLICATION NUMBER: US 09/648,557
18 <141> CURRENT FILING DATE: 2000-08-25
20 <160> NUMBER OF SEQ ID NOS: 21
22 <170> SOFTWARE: FastSEQ for Windows Version 4.0
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 10
26 <212> TYPE: PRT
27 <213> ORGANISM: HIV
29 <220> FEATURE:
30 <223> OTHER INFORMATION: Residues 395-404 of HIV-1 BH10RT
32 <400> SEQUENCE: 1
33 Lys Glu Thr Trp Glu Thr Trp Trp Thr Glu
34 1               5                   10
37 <210> SEQ ID NO: 2
38 <211> LENGTH: 27
39 <212> TYPE: PRT
40 <213> ORGANISM: Artificial Sequence
42 <220> FEATURE:
43 <223> OTHER INFORMATION: Peptide MPG
45 <400> SEQUENCE: 2
46 Gly Ala Leu Phe Leu Gly Phe Leu Gly Ala Ala Gly Ser Thr Met Gly
47 1               5                   10                  15
48 Ala Trp Ser Gln Pro Lys Ser Lys Arg Lys Val
49             20                  25
52 <210> SEQ ID NO: 3
53 <211> LENGTH: 6
54 <212> TYPE: PRT
55 <213> ORGANISM: Artificial Sequence
57 <220> FEATURE:
58 <223> OTHER INFORMATION: Amphipatic sequence of peptide MPG
60 <400> SEQUENCE: 3
61 Gly Phe Leu Gly Ala Ala
62 1               5
```

65 <210> SEQ ID NO: 4
66 <211> LENGTH: 25
67 <212> TYPE: PRT
68 <213> ORGANISM: Artificial Sequence
70 <220> FEATURE:
71 <223> OTHER INFORMATION: Retroinhibase 1, peptide p7++
73 <400> SEQUENCE: 4
74 Gly Phe Leu Gly Ala Ala Gly Ser Thr Met Gly Ala Trp Ser Gln Lys
75 1   5   10   15
76 Glu Thr Trp Glu Thr Trp Trp Thr Glu
77   20   25
80 <210> SEQ ID NO: 5
81 <211> LENGTH: 15
82 <212> TYPE: PRT
83 <213> ORGANISM: HIV
85 <220> FEATURE:
86 <223> OTHER INFORMATION: Peptide p237
88 <400> SEQUENCE: 5
89 Arg Gly Thr Lys Ala Leu Thr Glu Val Ile Pro Leu Thr Glu Asp
90 1   5   10   15
93 <210> SEQ ID NO: 6
94 <211> LENGTH: 21
95 <212> TYPE: PRT
96 <213> ORGANISM: Artificial Sequence
98 <220> FEATURE:
99 <223> OTHER INFORMATION: Peptide p7+
101 <400> SEQUENCE: 6
102 Gly Ala Leu Phe Leu Gly Phe Leu Gly Ala Ala Lys Glu Thr Trp Glu
103 1   5   10   15
104 Thr Trp Trp Thr Glu
105   20
108 <210> SEQ ID NO: 7
109 <211> LENGTH: 10
110 <212> TYPE: PRT
111 <213> ORGANISM: HIV-1
113 <400> SEQUENCE: 7
114 Lys Glu Thr Trp Glu Ala Trp Trp Thr Glu
115 1   5   10
118 <210> SEQ ID NO: 8
119 <211> LENGTH: 10
120 <212> TYPE: PRT
121 <213> ORGANISM: HIV-1
123 <400> SEQUENCE: 8
124 Lys Glu Thr Trp Glu Ala Trp Trp Met Glu
125 1   5   10
128 <210> SEQ ID NO: 9
129 <211> LENGTH: 10
130 <212> TYPE: PRT
131 <213> ORGANISM: HIV-1

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/648,557

DATE: 05/27/2003
TIME: 09:00:25

Input Set : A:\017753-152.ST25.txt
Output Set: N:\CRF4\05272003\I648557.raw

```
133 <400> SEQUENCE: 9
134 Lys Glu Thr Trp Glu Thr Trp Trp Ile Glu
135 1               5                 10
138 <210> SEQ ID NO: 10
139 <211> LENGTH: 10
140 <212> TYPE: PRT
141 <213> ORGANISM: HIV-1
143 <400> SEQUENCE: 10
144 Lys Glu Thr Trp Glu Thr Trp Trp Ala Glu
145 1               5                 10
148 <210> SEQ ID NO: 11
149 <211> LENGTH: 10
150 <212> TYPE: PRT
151 <213> ORGANISM: HIV-2
153 <400> SEQUENCE: 11
154 Arg Glu Ile Trp Glu Gln Trp Trp Asp Asn
155 1               5                 10
158 <210> SEQ ID NO: 12
159 <211> LENGTH: 10
160 <212> TYPE: PRT
161 <213> ORGANISM: HIV-2
163 <400> SEQUENCE: 12
164 Arg Glu Thr Trp Asp Gln Trp Trp Thr Asp
165 1               5                 10
168 <210> SEQ ID NO: 13
169 <211> LENGTH: 10
170 <212> TYPE: PRT
171 <213> ORGANISM: HIV-1
173 <220> FEATURE:
174 <221> NAME/KEY: VARIANT
175 <222> LOCATION: 6
176 <223> OTHER INFORMATION: Xaa = Thr or Ala
178 <221> NAME/KEY: VARIANT
179 <222> LOCATION: 10
180 <223> OTHER INFORMATION: Xaa = Glu or Asp
```
W--> 182 **<400> 13**
W--> 183 **Lys Glu Thr Trp Glu Xaa Trp Trp Thr Xaa**
```
     184 1               5                 10.
     187 <210> SEQ ID NO: 14
     188 <211> LENGTH: 10
     189 <212> TYPE: PRT
     190 <213> ORGANISM: HIV-1
     192 <220> FEATURE:
     193 <221> NAME/KEY: VARIANT
     194 <222> LOCATION: 14  6
     195 <223> OTHER INFORMATION: Xaa = Thr or Ala
     197 <400> SEQUENCE: 14
```
W--> 198 **Lys Glu Thr Trp Glu Xaa Trp Trp Met Glu**
```
     199 1               5                 10
```

```
202 <210> SEQ ID NO: 15
203 <211> LENGTH: 10
204 <212> TYPE: PRT
205 <213> ORGANISM: HIV-1
207 <400> SEQUENCE: 15
208 Lys Glu Thr Trp Glu Ala Trp Trp Thr Asp
209 1               5                   10
212 <210> SEQ ID NO: 16
213 <211> LENGTH: 10
214 <212> TYPE: PRT
215 <213> ORGANISM: Artificial Sequence    see item 11 on Error
217 <220> FEATURE:                                   Summary
218 <221> NAME/KEY: VARIANT                            Sheet
219 <222> LOCATION: 6
220 <223> OTHER INFORMATION: Xaa = Thr or Ala
222 <221> NAME/KEY: VARIANT
223 <222> LOCATION: 9
224 <223> OTHER INFORMATION: Xaa = Thr, Ala, Val or Ile
W--> 226 <221> VARIANT
227 <222> LOCATION: 10
228 <223> OTHER INFORMATION: Xaa = Glu or Asp
W--> 230 <400> 16
W--> 231 Lys Glu Thr Trp Glu Xaa Trp Trp Xaa Xaa
232 1               5                   10
235 <210> SEQ ID NO: 17
236 <211> LENGTH: 10
237 <212> TYPE: PRT
238 <213> ORGANISM: HIV-1
240 <400> SEQUENCE: 17
241 Lys Glu Thr Trp Asp Thr Trp Trp Thr Glu
242 1               5                   10
245 <210> SEQ ID NO: 18
246 <211> LENGTH: 10
247 <212> TYPE: PRT
248 <213> ORGANISM: HIV-1
250 <400> SEQUENCE: 18
251 Lys Glu Thr Trp Glu Val Trp Trp Thr Glu
252 1               5                   10
255 <210> SEQ ID NO: 19
256 <211> LENGTH: 10
257 <212> TYPE: PRT
258 <213> ORGANISM: HIV-1
260 <400> SEQUENCE: 19
261 Arg Glu Thr Trp Glu Thr Trp Trp Ala Asp
262 1               5                   10
265 <210> SEQ ID NO: 20          Item 11
266 <211> LENGTH: 10
267 <212> TYPE: PRT
268 <213> ORGANISM: Artificial Sequence
```

Input Set : **A:\017753-152.ST25.txt**
Output Set: **N:\CRF4\05272003\I648557.raw**

```
      270 <220> FEATURE:
      271 <221> NAME/KEY: VARIANT
      272 <222> LOCATION: 2
      273 <223> OTHER INFORMATION: Xaa = Glu or Asp
      275 <221> NAME/KEY: VARIANT
      276 <222> LOCATION: 3
      277 <223> OTHER INFORMATION: Xaa = Thr, Val or Ile
W--> 279 <221> VARIANT
      280 <222> LOCATION: 10
      281 <223> OTHER INFORMATION: Xaa = Asn or Asp
W--> 283 <400> 20
W--> 284 Arg Xaa Xaa Trp Glu Gln Trp Trp Asp Xaa
      285 1               5                   10
      288 <210> SEQ ID NO: 21
      289 <211> LENGTH: 10
      290 <212> TYPE: PRT
      291 <213> ORGANISM: Artificial Sequence
      293 <220> FEATURE:
      294 <223> OTHER INFORMATION: HIV-1
      296 <400> SEQUENCE: 21
      297 Arg Glu Thr Trp Asp Gln Trp Trp Thr Asp
      298 1               5                   10
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 05/27/2003
PATENT APPLICATION: US/09/648,557   TIME: 09:00:26

Input Set : **A:\017753-152.ST25.txt**
Output Set: **N:\CRF4\05272003\I648557.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:13; Xaa Pos. 6, 10
Seq#:14; Xaa Pos. 6
Seq#:16; Xaa Pos. 6, 9, 10
Seq#:20; Xaa Pos. 2, 3, 10

VERIFICATION SUMMARY   DATE: 05/27/2003
PATENT APPLICATION: **US/09/648,557**   TIME: 09:00:26

Input Set : **A:\017753-152.ST25.txt**
Output Set: **N:\CRF4\05272003\I648557.raw**

L:182 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:13
L:183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:226 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:16
L:230 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:16
L:231 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:279 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:20
L:283 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:20
L:284 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0